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# EMAC 1.0.3.11: Release Notes

July 17, 2018

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## **Contributors to this document**

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# 1 Release Summary

<b>Release Date</b>	10/26/2010
<b>Target Product Release(s)</b>	EMAC 1.0.2 GA
<b>Package</b>	ti.drv.emac 1 0 2 1.tar
<b>Target DSP Build(s)</b>	C6472, C6457, C6474
<b>Git Tag</b>	DEV.EMAC LLD.01.00.02.01

**Table 1 Release Summary**

## 1.1 New features

Refer to 2.32.3 for new features.

## 1.2 IRs/Issues Resolved

These are the IRs resolved in this release:

IR ID	Description
PRSDK-2194	Add RTOS Installer script to autosec SDK_INSTALL_PATH
PRSDK-4182	Global interrupt disabling in EMAC driver breaks real time task
PRSDK-3602	Added memory alignment for OMAPL138 DSPexamples to boot from SBL

**Table 2 IR/Issues Resolved**

## 1.3 Known Issues/Limitations

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# 2 EMAC LLD

## 2.1 Component Compatibility keys

The table below shows the compatibility keys of EMAC LLD 1.0.2 release:

Package	Modified	Previous Version	Current Version	Compatibility Key
ti.drv.emac	YES	N/A	1.0.2	{1,0,0,0}

**Table 3 Compatibility Keys**

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## 2.2 License

Refer to the software manifest document.

## 2.3 Modifications/Features

Following are the features/modifications introduced for this release:

- Support C6472
- Support C6457
- Support C6474
- Support multiple EMAC ports per core.
- Support multiple channels/MAC addresses per core.
- Support generic OS adaptation layer function call in the LLD. Customers can implement their own OSAL functions depending on the OS the application is running.

## 2.4 Delivery Package

The delivery package from Texas Instruments will be delivered as Source and Binary in ti.drv.emac\_1\_0\_2\_1.tar file.

## 2.5 Required Tools

- Code Composer Studio v4. 2.0.10012 and above
- TMS320C6000 C/C++ Code Generation Tools v7.0.3
- XDC v3.20.03.63

## 2.6 Required Components

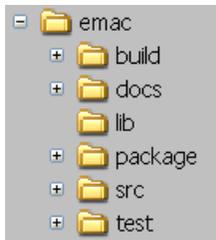
- C6472 CSL 3.0.7.1
- C6457 CSL 3.5.0.1
- C6457 CSL 3.4.0.1
- DSP BIOS v6.30.02.42 and above
- IPC v1.21.02.23 and above

## 2.7 Installation Instructions

The steps to be followed for installation of the EMAC release are as follows:

1. Download the release tar file.
2. Untar the tar file.

The following is the directory structure after the EMAC driver package has been installed:



The following table explains the contents of the EMAC package:

Directory Name	Description
./emac	<p>The top level directory contains the following:</p> <ul style="list-style-type: none"> <li>• <i>XDC Build and Package files</i> These files (config.bld, package.xdc etc) are the XDC build files which are used to create the EMAC package.</li> <li>• <i>Exported Driver header file</i> Header files which are provided by the EMAC driver and should be used by the application developers for driver customization and usage.</li> </ul>
./emac/build	The “build” directory contains the CCS4 project files to build EMAC driver library.
./emac/docs	The “docs” directory contains the EMAC driver documentation.
./emac/lib	The “lib” folder has pre-built Big and Little Endian libraries for the EMAC driver along with their code/data size information.
./emac/package	EMAC driver package files.
./emac/src	Source code for the EMAC Driver.
./emac/test	The “test” directory has test examples which are used to unit test the EMAC driver.

**Table 4 EMAC Package Content**

## 2.8 Unit Test Projects

### 2.8.1 Loopback Test Application

Refer to emac/test/loopback/readme.txt for details.

### 2.8.2 Multicore Test Application

Refer to emac/test/multicore/readme.txt for details.

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### 2.8.3 Benchmark Test Application

Refer to `emac/test/benchmark/readme.txt` for details.

### 2.9 EMAC Library Build Project

Refer to `emac/build/buildlib/readme.txt` for details.

### 2.10 Customer Documentation List

The following table lists the documents that are accessible through the `/docs` folder in the delivery package.

Document #	Document Title	File Name
1	API documentation (generated by Doxygen)	<code>emac/docs/emac.chm</code>
2	EMAC LLD Software Design Document	<code>emac/docs/EMAC_LLD_SD.pdf</code>
3	EMAC LLD Software Manifest Document	<code>emac/docs/EMAC_Software_Manifest.pdf</code>

**Table 5 Customer Documentation List**